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(54) Title: CLONING AND CHARACTERIZATION OF SLC26A7 AND SLC26A9 ANION EXCHANGERS

SEQ ID NO.

12	SLC26A1	(71)	GDVMSGLVIGIILVPOAIAYSLLAG--LOPIYSLYTSFFANLIYFELMGTS
13	SLC26A2	(110)	GDVMSGLVIGIILVPOAIAYSLLAG--QEPYGLYTSFFASTIYFELGTS
14	SLC26A3	(75)	SDIVSGISTGLVAVLOGLAFAALLVN--LPPAYGLYSAFFPVIYFELGTS
15	SLC26A4	(86)	SDIVSGISTGLVGTLOGMAYALLAA--VPVQGLYSAFFPVIYFELGTS
16	SLC26A5	(82)	GDIVSGISTGLVQLPGLAFAMLA--VPPVGLYSSFPVIMYCFEGTS
17	SLC26A6	(94)	GDIVSGISVAIMOLPGLAYALLAG--LPPMEGLYSSFPVYFELGTS
18	SLC26A7	(49)	PDTVSGIMLAVQVAGLSFAMLS--VHPVGLYGLSLFPATYAFGMG
19	SLC26A8	(92)	GDIVGLSVGLAQVPOGLILSLTRQLIPPLNVTYAFCSSTVYFEGSC
20	SLC26A9	(73)	PDLGGLSGGCIQVPOGMFAALLAN--LPAVNGLYSSFPVLYFELGGI
21	SLC26A11	(33)	LDFLAGLSVGETVTPGALAYAEVAG--LPPQVGLYSAFMGCFTYFELGTS
12	SLC26A1	(119)	RHVNIGIFSLCLMVGQVVDRELQLAGFDPSQDSLGPKNNDSTLNSATT
13	SLC26A2	(158)	RHISVGIFGILCLMIGEVDRELHKACPDTDATSSSIIVFSSGCVVVNHT
14	SLC26A3	(123)	RHISVGFPFVLSMMGVVVTRVSDFNASS-----ELSSSTENDSFI
15	SLC26A4	(134)	RHISVGFPFVLSMVGSVVLSMAPDDHFTVPSGNGS-ALNSTPDTGTRO
16	SLC26A5	(130)	RHISGPFVAVISLMIGGVAVRLVPPDIVIPG-G-----VNATNGTEARD
17	SLC26A6	(142)	RHISVGTFVAVMSVMVGSVTESLTADKAFVQ-----LNATAD
18	SLC26A7	(97)	RHVATGTFALTSLTSANAVRLVPOSSRNLTQ--S-----NSSVLGLSEFE
19	SLC26A8	(142)	HOMSTGPFVLSALMINVLKDRPFNNGHILG---TFVKDDFSVPTFYLS
20	SLC26A9	(121)	HOMVPGTFAVISILVGNICLOAPESKFOIFNN---VTNETVYDTAAME
21	SLC26A11	(81)	RDVITGPTAIMSLVSFYTFREPAYAVLTA-----

(57) Abstract: Isolated nucleic acids encoding SLC26A7 and SLC26A9 anion transporter polypeptides, recombinantly expressed SLC26A7 and SLC26A9 anion transporter polypeptides, heterologous expression systems for recombinant expression of SLC26A7 and SLC26A9 anion transporter polypeptides, assay methods employing the same, and methods for modulation of anion transport activity.

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